



Environmental  
Quality

Facility Permit No: SLAS-92-07  
Stallings Septic Service  
Permit to Operate  
December 16, 2015  
Page 1 of 4

## North Carolina Department of Environmental Quality

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

### PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Stallings Septic Service  
Bobby & Carolyn Stallings, Wallace Moore  
7132 Hidden Valley Trail  
Garner, NC 27529

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-92-07** located on SR#1010 in Wake County at approximate positions 35.62024° N latitude and -78.59184° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

12/16/2015

A handwritten signature in black ink, appearing to read 'Martin A. Gallagher', written over a horizontal line.

Martin A. Gallagher, Supervisor  
Composting & Land Application Branch,  
Solid Waste Section  
Division of Waste Management, NCDEQ



## CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Bobby & Carolyn Stallings and Wallace Moore and approved by the Division of Waste Management. **The 13.5 acre site is divided into Field 1 (5.7 acres) and Field 2 (7.8 acres).** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications, the waiting period and harvests between the two permitted fields on this site. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Bobby & Carolyn Stallings and Wallace Moore in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.



7. **This site contains approximately 13.5 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 675,000 gallons may be applied to this site. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application rates to the disposal fields shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 12,980 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.



14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on October 4, 2020.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. **An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date.** A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17(b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. **Boundaries of the permitted septage land application fields shall be clearly marked on the ground.**
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.





PAT MCCRORY  
*Governor*

DONALD R. VAN DER VAART  
*Secretary*

LINDA CULPEPPER  
*Director*

December 16, 2015

Bobby & Carolyn Stallings  
Stallings Septic Service  
7132 Hidden Valley Trail  
Garner, NC 27529

**RE: SLAS permit renewal  
Stallings Septic Service  
SLAS-92-07  
SR#1010 in Wake County**

Dear Mr. & Mrs. Stallings:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Wake County. Your application has been approved and your permit, # **SLAS-92-07**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **October 4, 2020**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist  
Division of Waste Management, NCDEQ

Enclosures

cc: files

Wake County Health Department

h:\cl\septage\slasper\9207cl15p.doc



# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

MAY 27 2015

DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

## I. Site and Operator Information

1. Applicant Stallings Septic Service  
Address 7132 Hidden Valley Trail  
Garner, NC 27529  
Phone 919-779-1074  
Wallace Moore
2. Contact person for site operation (if different from applicant) Bobby & Carolyn Stallings  
Title or position Owners Phone 919-779-1074  
Address same as above
3. Landowner Same as above + Carroll Godley  
Address \_\_\_\_\_
4. Site Location: County Wake State Road Number 1010  
Directions to site: take hwy 50 South, out of Garner, left on Cleveland School Rd., left Hidden Valley Trail, apprx. 1/2 mile

5. Indicate whether request is: new \_\_\_\_\_ renewal ☒ modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: 92-07 permit expiration date: 7/29/15

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 13.5 acres.
7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.
8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**
9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.
10. Attach a vicinity map (county road map showing site location).

(over)



## II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDTF/SLAS 92-07, NRWTP Raleigh, City of Durham  
Johnston County, Harnett County, Upper Piedmont Environmental
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks ☒
  - (b) Grease trap pumpings ☒
  - (c) Portable toilet waste ☐
  - (d) Commercial / Industrial septage ☐
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): for lime stabilization, enough hydrated lime is added to domestic septage to raise ph to 12, hold for 30 minutes  
for grease enough lime is added to bring ph to 12, hold for 2 hours before land application
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Liquid is pumped into trucks/tanker vehicle is in motion when discharge begins, a spreader attachment is used to land apply
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary):  
Site is agriculture exempt

## III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Wallace W. Moore Carolyn Stallings 5/14/15  
Bobby Ray Stallings Signature\*\*\* Date  
Wallace W. Moore  
Bobby Ray Stallings/Carolyn Stallings Owners  
Print name Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0837(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0837(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.



## Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources  
Division of Waste Management - Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Carroll S. Badley (name of site owner) hereby certify that I am the owner of  
10+ acres of land located 7129 Cleveland School Rd., Garner, NC 27529  
and identified by book 11365 and page 0545 (book and page of recorded deed  
or tax map parcel) and that I agree to allow Stallings Septic Service (name of site  
operator) to use said land for septage land application for a period of 9 years (length  
of time), beginning 10/4/11 (month, day and year) and that I have read the  
North Carolina Septage Management Rules \*, and I understand and agree to maintain the restrictions on  
land use after septage land application ends \*\*. I further understand that no septage may be land applied  
until the Division of Waste Management has issued a permit for a septage land application site. The above  
described property is owned solely by me or jointly with \_\_\_\_\_  
\_\_\_\_\_ (names of all co-owners, or state none).

Signature of landowner Carroll S. Badley Date 6/9/15

Signature of landowner \_\_\_\_\_ Date \_\_\_\_\_

Sworn to and subscribed before me this 9<sup>th</sup> day of June, 20 15.

Theresa Ray Brumfield  
(Notary Public)

My Commission expires: 2-18-19

(OFFICIAL SEAL)

\* 15A N.C. Admin. Code 13B Section .0800

\*\* As required by Rule .0843



BMC BMC  
STALLINGS SEPTIC TANK SERVICE, INC.  
7132 HIDDEN VALLEY TRAIL  
GARNER, NC 27529

NUTRIENT MANAGEMENT PLAN FOR  
SEPTAGE APPLICATIONS  
July 30, 2011

This nutrient management plan covers septage application to <sup>two</sup> fields. These fields are identified as Field 1, Field 2, [REDACTED]. The site maps attached defines the location of each field. This plan updates all prior nutrient management plans.

A. General Information:

- 5.7
1. Field 1 contains 2.8 acres for septage application and is Wagram-Cecil sand and [REDACTED] contains 2.9 acres for septage application and is Wagram-Cecil sand. Field 2 contains 7.8 acres for septage application and is Norfolk loamy sand, 2-6 percent slopes.
  2. Periodic sampling, at least one time per year, by December 1<sup>st</sup>, of the septage will be conducted for waste analysis.
  3. The limiting nutrient designed for the site is nitrogen. Septage application shall not exceed 50,000 gallons per acre per year to any field. Each field will be managed with bermudagrass overseeded with annual ryegrass in the fall (details below).
  4. Septage application to Field 2 shall not occur until specific approval is granted from the Division of Waste Management. An adequate crop must be established prior to septage application.
  4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth). As these soils are well drained with good surface and internal drainage, that should only occur after heavy or prolonged periods of rain or snow.
  5. All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage be grazed.
  6. Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan, such as disposal at a waste treatment plant, should be in place.



B. Crops to be grown and approximate planting times:

1. Fields 1 [REDACTED] are established in bermudagrass. Areas that develop with less than 80% groundcover of bermudagrass will be seeded using a no-till drill with bermudagrass at a rate of 5-7 pounds/acre in April-May.

Each year these fields will be overseeded with annual ryegrass at a rate of 15-20 lbs/acre with a no-till drill between September 15 and October 15. If the late summer is warm and wet, wait until October to seed the ryegrass.

Field 2 is to be established in bermudagrass, and then managed as Fields 1 [REDACTED]. Septage application to Field 2 is NOT to commence until notification of approval from the Division of Waste Management that the site is adequate.

Each year after septage application starts, Field 2 will be overseeded with annual ryegrass at a rate of 15-20 lbs/acre with a no-till drill between September 15 and October 15. If the late summer is warm and wet, wait until October to seed the ryegrass.

C. Nitrogen needs for crops grown: (RYE = realistic yield expectations)

Fields 1 [REDACTED]

Crop	RYE		Limiting Nutrient App. Rate	lbs N/acre
Coastal bermudagrass	4.5 tons/acre	x	50 lbs N/dry ton	= 225
Ryegrass	2.0 tons/acre	x	45 lbs N/dry ton	= 90

Field 2:

Crop	RYE		Limiting Nutrient App. Rate	lbs N/acre
Hybrid bermudagrass	6.4 tons/acre	x	46 lbs N/dry ton	= 294
Ryegrass	1.2 tons/acre	x	46 lbs N/dry ton	= 55

D. Relative application rates for all fields

Month      Fields 1, 2, [REDACTED]

January	Low
February	Low
March	Medium
April	High
May	High
June	High
July	High
August	High
September	Medium
October	Low
November	Low
December	Low

Low = up to 5,000 gallons/acre

Medium = up to 10,000 gallons/acre

High = up to 15,000 gallons/acre



These are maximum application amounts, per acre per month. ***Cumulative yearly application rate is not to exceed the permitted application rate.***

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by broadcast septage application.

F. Additional Fertility Requirements (not including the limiting nutrient from the waste stream)

Nitrogen, phosphorus and / or potassium will be added in accordance with the soil test results for the crops grown in order to achieve realistic yield expectations based on the soil at the land application site and nutrient loading rates. Soil pH shall be amended as recommended in the soil test report. PLEASE NOTE THAT LIME-AMENDED SEPTAGE WILL RAISE SOIL pH. YOU SHOULD CLOSELY MONITOR SOIL pH AND ALSO HAVE THE SEPTAGE CHECKED FOR ITS LIME VALUE TO INSURE THAT THE SOIL pH DOES NOT BECOME TOO HIGH. THE COST OF SEPTAGE ANALYSIS FOR LIME VALUE IS CURRENTLY \$10.00 WITH THE NCDA&CS LABORATORY.

The buffer areas should be fertilized with approximately 120 lbs/acre/year of N, 40 lbs/acre/year of  $P_2O_5$ , and 80 lbs/acre/year of  $K_2O$  or based on soil test results (sample the buffer areas separately for future soil testing).

G. Harvest of the crops and their use:

1. The bermudagrass will be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence. This is roughly every 4-6 weeks. This will usually take place in late May to early June and again in July and September. At least three harvests will be made each year from each field.
2. The ryegrass will be cut as hay and baled in March to early April each year from each field.
3. A 30-day waiting period must be observed between the last application of septage and harvest. Use this waiting period to plan anticipated septage applications and harvest times between all 2 fields. [REDACTED], switch between Fields 1 and 2 on a cycle of every 30 to 45 days. ~ during growing season per Bobby Stallings
4. The hay will be sold to a local farmer to feed beef cows and horses.
5. The horses will be kept in the riding ring or neighboring pastures when not grazing.



## SOIL EROSION AND RUNOFF CONTROL PLAN

This site is to be managed in permanent bermudagrass hayland and seasonal ryegrass overseed. The maximum slope on the ~~two~~ fields is 5 percent. The required field buffer should be maintained in permanent grass to prevent septage from migrating from the site. No other erosion control measures are needed for this plan, as this offers the best control possible. No off-site surface waters encroach on the site. The nearest surface waters (intermittent, unnamed tributary to Swift Creek) is over 300 feet away from the field with full wooded coverage.

The quality of the grass stand should dictate when and how much septage is applied. Lighter applications are warranted when the nutrient management plan calls for low applications or when the threat of ponding or septage runoff off the site is higher. The operator should calibrate and test the spreading equipment such that they are familiar with speeds and settings to apply appropriate application rates. Regular review of the grass stand quality is critical to maintain forage health and adequate erosion control. At the first sign of plant stress, both soil tests and plant tissue analyses are encouraged to provide for sound management decisions. The bermudagrass should be fertilized with septage and/or commercial fertilizer to maintain a good sod base across the application area and in buffer areas.

Submitted by: Bobby Stallings Date: February 9, 2011  
Site Operator

Plan prepared by: Karl Shaffer, L.S.S., Certified Technical Specialist - Nutrient  
management Planner Date: July 30, 2011

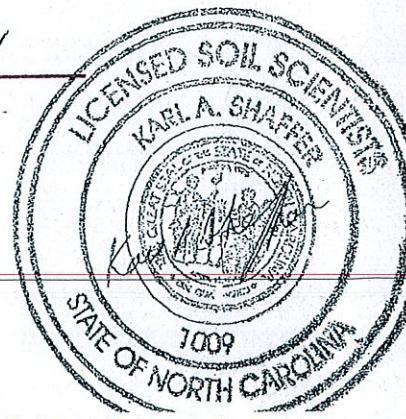
Address: 685 Sanford Road  
Pittsboro, NC 27312

Phone: (919) 542-5803, (919) 244-1984

Signed: <u>Bobby Stallings</u>	Date: <u>7/22/15</u>
Signed: <u>Bobby Stallings</u>	Date: <u>8/4/11</u>
Signed: <u>Carolyn Stallings</u>	Date: <u>7/22/15</u>
Signed: <u>Carolyn Stallings</u>	Date: <u>8/4/11</u>
Signed: <u>Wallace Moore</u>	Date: <u>7/22/15</u>
Signed: <u>Wallace Moore</u>	Date: <u>8/4/11</u>

Signed: Karl Shaffer Date: 7/30/11  
Karl Shaffer, L.S.S.

h:\cl\septage\forms\nmp\comprehensiveNMP.doc





# SLAS-92-07

35.62024°N latitude  
-78.59184°W longitude



Source: NC OneMap ([www.nconemap.com](http://www.nconemap.com)) Corporation, Surdex, 2006, Wake County, NC 2005 Orthophotos.  
Map created by NC DENR, DWM, Composting and Land Application Branch for permitting purposes only.



## Google Maps 7132 Hidden Valley Trail

